AARON A. VELASCO

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Professional Geophysicist — Texas Lic. #5560
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1. EDUCATION

- Ph.D. (Geophysics), University of California, Santa Cruz — 1993
- B. S. (Applied Geophysics), University of California, Los Angeles — 1988

2. SUMMARY OF LEADERSHIP POSITIONS (COMPENSATED AND VOLUNTEER)

- State Seismologist of Texas, Railroad Commission of Texas — 2017-present
- Chair, United States National Committee for the International Union of Geological Sciences, National Academy of Science — 2020-present
- Chair, Graduate Council (UTEP) — 2020-2022
- Chair, Department Personnel Committee, Geological Sciences (UTEP) — 2020-2021
- Chair, Diversity, Equity, and Inclusion Task Force, Seismological Society of America, — 2020-2021
- Provost Special Assistant, Director of Strategic Initiatives (UTEP) — 2016-2017
- Vice President, Board for Insights-El Paso Science Center, Inc. — 2013-2015
- Director, Computational Sciences Program, College of Science (UTEP) — 2012-2013
- Interim Associate Dean for Research and Faculty Development, College of Science (UTEP) — 2012-2013
- Chair, Data Products Committee, Incorporated Research Institutes for Seismology (IRIS) — 2012-2013
- President, Board for Insights-El Paso Science Center, Inc. — 2011-2013
- Chair, Budget Research Study Group (UTEP) — 2011
- Department Chair, Geological Sciences (UTEP) — 2008-2011
- Board Member, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) — 2002-2010
- Chair, Committee on Geosciences (SACNAS) — 2002-2010
- Past-President (SACNAS) — 2009
- President (SACNAS) — 2007-2008
- President-Elect (SACNAS) — 2006
- Chair, Education and Outreach Committee, EarthScope — 2005-2007
- Team and Task Leader, Los Alamos National Laboratory (LANL) — 1999-2002

3. PROFESSIONAL EMPLOYMENT

- Professor, University of Texas at El Paso (UTEP) — 2008-present
- State Seismologist of Texas, Railroad Commission of Texas — 2017-present
- Provost Fellow, UTEP — 2022-2023

- Provost Special Assistant, Director of Strategic Initiatives 2016-2017
- Director, Computational Sciences Program, College of Science (UTEP) 2012-2013
- Interim Associate Dean for Research and Faculty Development, College of Science (UTEP) 2012-2013
- Department Chair, Geological Sciences, University of Texas at El Paso (UTEP) 2008-2011
- Associate Professor, University of Texas at El Paso (UTEP) 2002-2008
- Technical Staff Member, Los Alamos National Laboratory (LANL) 1997-2002
- Team and Task Leader, LANL 1999-2002
- Staff Geophysicist, Science Applications International Corporation 1993-1997
- Internet Consultant, Velasco Consulting Services 1994-1995
- Postdoctoral Researcher, Institute of Geophysics and Planetary Physics, Lawrence Livermore National Laboratory 1993
- Research Assistant, University of California, Santa Cruz (UCSC) 1988-1993
- Assistant Field Coordinator PASSCAL Instrument Deployments for:
  Aftershocks of the Valle de Estrella, Costa Rica, Earthquake (UCSC) 1991
  Calibration Explosions for the Santa Cruz Mountains (UCSC) 1991
  Aftershocks of the Loma Prieta, California, Earthquake (UCSC) 1989
- Computer Programmer, Institute of Geophysics and Planetary Physics, University of California, Los Angeles 1987-1988

4. CONSULTANTSHIPS

- Battelle 2023-present
- Samara Data 2023-present
- Expert Witness 2010-present
- Los Alamos National Laboratory 2002-2007
- Quantum Technologies (QTSI) 2004-2007

5. HONORS

- Fellow of the California Academy of Sciences 2021
- Appointed Member, Technical Advisory Committee , Texas Governor's Office 2018-2019, 2021-present
- Outstanding Mentor, College of Science, University of Texas at El Paso 2021
- Distinguished Lecturer, Cal. State Dominguez Hills 2011
- IRIS/SSA Distinguished Lecturer 2009
- Graduate Commencement Keynote Speaker, UCSC 2007
- Hispanos Triumfadores, Science, Community Service Award, El Paso Chamber of Commerce 2006
- U.C. President's Postdoctoral Fellowship 1993-1994
- Ford Foundation Dissertation Year Fellowship 1992-1993
- American Geosciences Institute Scholarship 1991,1992
- Patricia Harris Roberts Fellowship 1988-1991
- National Hispanic Scholarship Fund 1989, 1990, 1991

6. PROFESSIONAL SOCIETIES

- American Geophysical Union
- Seismological Society of America
- Society for the Advancement of Chicanos and Native Americans in Science
- Geological Society of America
- Sigma Xi

7. TEACHING ASSIGNMENTS

- Advanced Physical Geology (GEOL 4315/5315), 3 hours, New Course, Lecture, co-taught with C. Andronicos, Fall 2003
- Advanced Seismology (GEOP 5356), 3 hours, Graduate, Lecture, Spring 2003, Spring 2005, Spring 2009, Fall 2010, Spring 2012, Fall 2013, Fall 2015, Fall 2019, Spring 2021, Fall 2022
- Digital Signal Processing, (GEOP 5460), 4 hours, Graduate, Lecture/Lab, Spring 2004, Spring, Spring 2008, Fall 2009, Fall 2014, Spring 2015, Spring 2020, Spring 2023, Fall 2024
- Digital Signal Processing for Seismology, ROSES workshop, Summer, 2021
- Introduction to Physical Geology (GEOL 1301), 3 hours, Undergraduate, Lecture, Spring 2002, Spring 2003, Spring 2005, Fall 2005, Spring 2008, Spring 2012, Spring 2014, Fall 2015, Fall 2017, Fall 2018, Spring 2020, Fall 2021, Spring 2022
- Introduction to Seismology, IASPEU Workshop, online, Summer 2020
- Principles of Earth Science (GEOL 1303), 3 hours, Undergraduate, Lecture, Fall 2003, Spring 2004, Spring 2006
- Seismic Methods (GEOP 4332), 4 hours, Lecture/Lab, Fall 2005
- Seismology, (GEOP 5354), 3 hours, Graduate, Lecture, Fall 2002, Fall 2004, Fall 2006,Fall 2008, Spring 2010, Fall 2011, Fall 2013, Spring 2015, Fall 2016 , Spring 2019, Fall 2020, Spring 2022, Fall 2023
- Verification Seismology, 2 day workshop for Los Alamos National Laboratory, co-taught with B. Stump, May 2006, May 2008

8. SERVICE

a. UTEP Service

• Co-chair, Kidd Seismic Observatory	2002-present
• Member, Executive Committee, Faculty Senate	2021-present
• Chair, Graduate Council	2020-2022
• Chair, Department Personnel Committee, Geological Sciences	2020-2021
• Member, Committee for Undergraduate Enrollment, Strategic Planning	2020-2021
• Member, Committee for Diversity, Equity, and Inclusion	2020-2021
• Member, Department Personnel Committee, Geological Sciences	2018-2021
• Edge Faculty Fellow, UTEP	2018-2020
• Co-Chair, Search Committee for Shallow/Environmental Geophysicist	2016-2017
• Faculty Advisor, SACNAS Student Chapter	2004-2016
• Member, University Graduate Education Strategic Planning Committee	2015-2016

- Member, College Office for Undergraduate Research Initiatives (COURI) 2010-2016
- Member, Committee for Department Faculty Promotions 2014-2015
- Chair, Search Committee for Exploration Geophysicist 2013-2014
- Chair, Search Committee for Department Chair 2013-2014
- Member, University Honor Program Task Force 2013-2014
- Member, Diversity Advisory Council to the President 2012-2014
- Member, Executive Committee, Faculty Senate 2012-2013
- Pathways to the Geosciences High School Summer Camp, Geophysics, two days 2002-2012
- Chair, Budget Research Study Group 2011
- Department Chair, Geological Sciences 2008-2011
- Webmaster, Geological Sciences Web Page 2002-2008
- Member, College of Science Dean Selection Committee 2006-2007
- Graduate Advisor, Geological Sciences 2005-2007
- Undergraduate Advisor, Geological Sciences 2004-2005
- Liaison, University Library for Geological Sciences 2002-2005
- Top Ten Seniors Committee 2002
- Research and Engineering Apprenticeship Program (REAP) 2003-2005
- Introduction to Seismology and Nuclear Explosion Monitoring, two days for professionals, Los Alamos National Laboratory, 2002
- Lead Coordinator, Annual SACNAS Reception 2002-2004
- Panel Expert, Preparing Future Faculty, Alliance for Graduate Education and the Professoriate, UTEP-Howard University 2004
- Panel Expert, Alternative Careers in Science for REU Program 2003, 2004
- Judge, Student Research Expo 2004
- Presenter, Mother-Daughter Father-Son Program 2003, 2004

Postdoctoral Advisor

- Katalina Salas, UTEP 2023-present
- Azucena Zamora, UTEP 2016-2017,2019-2021
- Anibal Sosa, UTEP 2013
- Hector Gonzalez-Huizar, UTEP 2010-2013
- Musa Hussein, UTEP 2010-2013
- Claudia Aprea, LANL 2000
- Michael Begnaud, LANL 1999-2000

Committee Chair, Masters Thesis

- Leah April, Geological Sciences 2024-present
- Alex Rodriguez, Geological Sciences 2022-present
- David Simpson (co-chair with M. Karplus), Geological Sciences 2021-2023
- Erik Urquiri, Geological Sciences 2019-2023
- Sophia Terrazas, Geological Sciences 2022-2023
- Marc Garcia, Geological Sciences 2020-2023
- Alan Jacquez, Geological Sciences 2017-2019

- Nicolas Talavera, Geological Sciences 2015-2016
- Chanel Perez, Geological Sciences 2014-2015
- Richard Alfaro-Diaz, Geological Sciences 2014-2015
- Mohan Pant, Physics 2014-2015
- Arjun Neupane, Physics 2014-2015
- Sergio Celis, Geological Sciences 2012-2015
- Ibrahim Cerda, Geological Sciences 2010-2012
- Keisuke Irie, Geological Sciences 2010-2011
- Ezer Patlan (co-chair with J. Konter), Geological Sciences 2008-2011
- Lennox Thompson, Geological Sciences 2008-2010
- Derek Folger (co-chair with D. Doser), Geological Sciences 2004-2006
- Vicki Gee, Geological Sciences 2003-2005
- Todd Theiner, Geological Sciences 2003-2004

Committee Chair, Ph.D. Thesis

- Leah April, Geological Sciences 2024-present
- Alex Dominguez, Geological Sciences 2022-present
- Marc Garcia, Geological Sciences 2020-present
- America Alvarez (co-chair with T. Gill), Geological Sciences 2023-present
- Raquel Guzman, Geological Sciences 2019-2023
- Mohan Pant (co-chair with M. Karplus), Geological Sciences 2015-2023
- Solymar Alaya, Geological Sciences 2015-2022
- David Guenaga Geological Sciences 2017-2021
- Sandra Hardy, Geological Sciences 2012-2020
- Richard Alfaro-Diaz, Geological Sciences 2015-2019
- Ezer Patlan, Geological Sciences 2011-2016
- Azucena Zamora, Computational Sciences 2011-2015
- Lennox Thompson, Geological Sciences 2011-2015
- Tina Carrick (co-chair with D. Doser), Geological Sciences 2011-2014
- Anibal Sosa, Computational Sciences 2011-2012
- Cara Schiek (co-chair with J. Hurtado), Geological Sciences 2004-2009
- Hector Gonzalez, Geological Sciences 2006-2009
- Eva Rumpfhuber, Geological Sciences 2003-2008
- Cleit Zeiler, Geological Sciences 2004-2008

GK-12 Supported/Mentored Students

- Richard Alfaro-Diaz, Ph.D. Student, Geological Sciences 2014-2015
- Anna Ortiz, Ph.D. Student, Geological Sciences 2014-2015
  M.S., Environmental Sciences 2012-2013
- Claire Bailey, Ph.D. Student, Geological Sciences 2014-2015
- Monica Delgado, Ph.D., Biomedical Engineering 2014-2015
- Anais Martinez, Ph.D., Biological Sciences 2014-2015
- Yvette Pereyra, M.S., Student, Geological Sciences 2014-2015
- Chanel Perez, M.S., Geological Sciences 2014-2015
- Keith Kofed, M.S., Environmental Sciences 2014-2015

- Sandra Hardy, Ph.D, Geological Sciences 2013-2015
- Lorraine Negron, Ph.D., Geological Sciences 2013-2014
- Toni Carrick, M.S., Chemistry 2013-2015
- David Quintanar, Ph.D., Biological Sciences 2013-2015
- Ector Martell, M.S., Environmental Sciences 2012-2014
- Katherine Meraz, Ph.D., Biological Sciences 2012-2014
- Francisco Reyes, M.S., Environmental Sciences 2012-2014
- Lauren Storm, M.S., Geological Sciences 2012-2013
- Azucena Zamora, Ph.D., Computational Sciences 2012-2014
- Mark Lara, Ph.D, Environmental Science and Engineering 2011-2013
- Nisa Rhodes, Ph.D., Geological Sciences 2011-2013
- Alia Servin, Ph.D., Environmental Science and Engineering 2011-2013
- Sandra Villareal, Ph.D., Environmental Science and Engineering 2011-2013
- Lennox Thompson, Ph.D., Geological Sciences 2011-2013
- Rolando Cardenas, Ph.D., Computational Science 2010-2012
- Gina Esposito, M.S., Environmental Sciences 2010-2012
- Ezer Patlan, Ph.D., Geological Sciences 2010-2012
- Christian Servin, Ph.D., Computational Sciences 2010-2012
- Cheryl Storer, Ph.D., Biological Sciences 2010-2012
- Jaidee Zavala, Ph.D., Biological Sciences 2010-2012
- Sarah Cervera, Ph.D., Geological Sciences 2010-2011
- Claudia Santiago, M.S., Geological Sciences 2010-2011

Committee Member, Masters Thesis

- Joel Castro, Computational Sciences 2017-2018
- Alan Jacquez, Geological Sciences 2017-2018
- Susana Garcia, Geological Sciences 2016-2017
- Marissa Cameron, Geological Sciences 2012-2014
- Cesar Chacon, Computer Sciences 2012
- Christina Hernandez, Environmental Sciences 2010-2012
- Irbis Gris, Computer Sciences 2010-2011
- Enrique Casana, Geological Sciences 2007
- Katy Wiest, Geological Sciences 2003-2005
- Cara Schiek, Geological Sciences 2003-2004
- Claudia Flores, Geological Sciences 2002-2003
- Roberto A. Saenz, Mathematical Sciences 2003

Committee Member, Ph.D. Thesis

- Tara Sweeny, Geological Sciences 2022-present
- Mariana Benitez, Civil Engineering 2021-present
- Iliana Garcia, Geological Sciences 2019-present
- Manuel Moncada, Geological Sciences 2018-present
- Katalina Salas, Geological Sciences 2018-2023
- Mohan Pant, Geological Sciences 2016-2023

- Laxman Bokati, Computational Science 2021-2022
- Victor Garcia, Geological Sciences 2017-2020
- Rachelle Kernen, Geological Sciences 2015-2019
- Lorraine Negron, Geological Sciences 2015-2019
- Afshin Gholamy, Computational Sciences 2017-2018
- Anna Mwangi, Geological Sciences 2015-2018
- Anthony Alvarez, Geological Sciences 2016-2018
- Ngozi Ochoa, Materials Sciences 2015-2018
- Eric Kappus, Geological Sciences 2014-2016
- Abdusalam Agail, Geological Sciences 2011-2016
- Victor Avila, Geological Sciences 2011-2016
- Sarah Cervera, Geological Sciences 2011-2013
- Nicholas Del Rio, Computer Sciences 2011-2013
- Leonardo Salayandia, Computer Sciences 2011-2012
- Niti Mankhemthong, Geological Sciences 2011-2012
- Antony Wamalwa, Geological Sciences 2008-2011
- Christian Escudero, Geological Sciences 2008-2011
- Oscar Romero-De La Cruz, Geological Sciences 2008-2011
- Matt Averill, Geological Sciences 2005-2007
- Wesley Brown, Geological Sciences 2003-2004
- Annette Veilleux, Geological Sciences 2003-2006
- Nicholas Mariita, Geological Sciences 2003

Mentored Research

- Itzel Noriega, Undergraduate Student 2024-present
- Leah April, Undergraduate Student 2023-present
- Marco Garcia Fernandez, Undergraduate Student 2023-present
- Daniela Orea, Undergraduate Student 2022-2023
- David Simpson, Undergraduate Student 2019-2020
- Marc Garcia, Undergraduate Student 2019-2020
- Ian Trujillo, Undergraduate Student 2019
- Aimee Garcia, Undergraduate Student 2019
- Ricardo Casas, Undergraduate Student 2018-2019
- Jessica Dozal, Undergraduate Student 2017-2018
- Vanessa Apodaca, Undergraduate Student 2016-2018
- Aide Huerta, Undergraduate Student 2016-2018
- Alan Jacquez, Undergraduate Student 2016-2017
- Alina Valdez, Undergraduate Student 2014-2017
- Mark Hathazi, Undergraduate Student 2016-2017
- David Soto, Undergraduate Student 2013-2016
- Ashley Grijalva, Undergraduate Student 2011-2014
- Sandra Hardy, Undergraduate Student 2011-2012
- Sergio Celis, Undergraduate Student 2011-2012
- Francisco Torres, Undergraduate Student 2011-2012

- Marissa Cameron, Undergraduate Student 2007-2011
- Andrew Lopez, Undergraduate Student 2007-2011
- Stephen Hernandez, Undergraduate Student 2005-2009
- Leandro Trevino Graduate Student 2003-2008
- Monica Maceira, Graduate Student, Penn. State University/Los Alamos National Laboratory (LANL) 2000-2006
- Daniel Hernandez, Undergraduate Student 2002-2004
- Thomas VanDeMark, Undergraduate Student 2002-2004
- Tiffini Bond, Graduate Student 2003
- Eric Hernandez, High School Student 2003-2005
- Melissa Brophy, Undergraduate Student 2003
- Dowchu Drukpa, Graduate Student 2002
- Jill Franks, Undergraduate Student, University of Saint Louis/LANL 2002
- Claudia Flores, Graduate Student 2001-2002
- Moira Pyle, Undergraduate Student, University of Saint Louis/LANL 2001
- Craig Whitted, Graduate student, University of Arizona 1999
- Brett Ketter, Graduate student, University of Saint Louis 1998

b. Professional Service

National/International

- Member, Board of Directors, Seismological Society of America 2023-present
- Member, Diversity, Equity, and Inclusion Committee, Seismological Society of America 2022-present
- Member, Scientific Earthquake Studies Advisory Committee, United States Geological Survey 2022-present
- Member, Committee of Senior Advisors, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) 2023-present
- Chair, United States National Committee for the International Union of Geological Sciences, National Academy of Science 2020-2025
- Member, Board on International Science Organizations, National Academy of Science 2020-2025
- Member, Nominations Committee, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) 2020-2023
- Member, Ethics Committee, Seismological Society of America 2022-2023
- Member, Finance Committee, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) 2015-2022
- Chair, Seismological Society of America, Diversity, Equity, and Inclusion Task Force 2020-2021
- Member, United States National Committee for the International Union of Geological Sciences, National Academy of Science 2017-2020
- Member, Strategic Planning Committee, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) 2015-2016

- Member, National Research Council, Committee on Seismology and Geodynamics 2011-2014
- Chair, Data Products Committee, IRIS 2012-2013
- Scientist, Rapid Array Mobilization Program, 2010 Chile (M=8.9) Earthquake, IRIS 2010
- Member, Vision Committee, SACNAS 2010
- Past-President, SACNAS 2009
- President, SACNAS 2007-2008
- President Elect, SACNAS 2006
- Board Member, SACNAS 2002-2010
- Chair, Committee on Geosciences, SACNAS 2002-2010
- Member, TXESS Revolution Advisory Committee 2008-2009
- Member, National Research Council, Committee on Seismology and Geodynamics 2003-2009
- Chair, EarthScope Education and Outreach Committee 2005-2007
- Member, Task Force on Doctoral Education, UT System 2006-2007
- Member, EarthScope Advisory Panel 2006-2007
- Member, EarthScope Annual Meeting Planning Committee 2006-2007
- Member, IRIS Education and Outreach Standing Committee 2003-2006
- Chair, Committee on Student Presentations, SACNAS 2002-2005
- Member, Advanced National Seismic System, Central United States Panel 2002-2003
- Member, EARTHSCOPE Education and Outreach Committee 2002
- Committee Member, Digital Library for Earth System Education (DLESE) Diversity Committee 2005

State and Regional

- Member, Technical Advisory Committee, Texas Governor's Office 2018-2019,2021-present
- Expert Advisory, Office of Emergency Management, El Paso, TX 2018-present
- Member, Technical Advisory Committee, UT Austin 2020-2021
- Member, UT Task Force on Ph.D. Education 2006-2007
- Panel Member, Texas Education Agency 2003

c. Community Service

- Expert, Local Television and Newspaper Interviews Regarding Earthquakes 2003-present
- Member, Organizing Committee, miniCAST Science Teacher Conference, El Paso, TX 2014-2016,2018-2019,2021-present
- Guest Speaker, Rock Presentation, Polk Elementary, El Paso, TX 2018-2021
- Guest Speaker, Polk Elementary Science Explosion Week, Generate an Earthquake, El Paso, TX 2018-2019
- Vice President, Board for Insights-El Paso Science Center, Inc. 2013-2015
- Member, Board for Insights-El Paso Science Center, Inc. 2010-2014
- President, Board for Insights-El Paso Science Center, Inc. 2011-2013

- Panel Member, Science Career Expo, Mission Early College High School 2011
- Marathon and Triathlon Coach, Leukemia and Lymphoma Society of America, Team in Training 1999-2006
- Expert, High School Geoscience Curriculum, Texas Education Agency 2003
- Volunteer, Bhutan Days, Geological Sciences Booth, UTEP 2003

9. PROFESSIONAL ACTIVITIES

a. Professional Presentations

Panelist Invited Talks

- Annual Meeting of the Association of American State Geologists (Online), Panelist, Diversity, Equity, and Inclusion in State Geological Agencies 2021
- American Geophysical Union, Fall Meeting (Online), Workshop Panelist, Exploring Challenges for Diversifying Faculty 2020
- American Geophysical Union, Fall Meeting (Online), Panelist, How Community Shapes the Rhythm and Flow of Science in Society 2020
- American Geophysical Union, Fall Meeting (Online), Panelist, Tectonophysics, Seismology & Geodesy Sections Joint Early Career/Student Networking Event 2020

State Seismologist Invited Talks

- SEG Workshop on Induced Seismicity, Plenary Talk, Dallas, TX, RRC Industry Collaboration and Coordination 2024
- SEG Workshop on Induced Seismicity, Keynote, Austin, TX, Addressing Seismicity in Texas: The Technical Approach of the Railroad Commission of Texas 2022
- Pennsylvania State University, webinar, Addressing Seismicity in Texas: The Technical Approach of the Railroad Commission of Texas 2021
- Southern Methodist University, webinar, Addressing Seismicity in Texas: The Technical Approach of the Railroad Commission of Texas 2021
- Miami University of Ohio, webinar, Addressing Seismicity in Texas: The Technical Approach of the Railroad Commission of Texas 2021
- American Rock Mechanics Association Induced Seismicity webinar, Addressing Seismicity in Texas: The Technical Approach of the Railroad Commission of Texas 2020
- Stanford Center for Induced Seismicity, State of the Railroad Commission Guidelines for Induced Seismicity, Midland TX 2018
- Unconventional Resources Technology Conference (URTeC), Seismicity and Saltwater Disposal Well Permitting 2018
- AAPG SW Section Meeting, Seismicity and Saltwater Disposal Well Permitting 2018
- Permian Basin Water in Energy Conference, Seismicity and Saltwater Disposal Well Permitting 2018
- SEG/SPE 4th Injection Induced Seismicity Workshop, An Update on Seismicity and Seismic Monitoring in Texas 2017

Distinguished and Keynote Lectures

- Cal State University, Dominguez Hills, Distinguished Speaker Series, Can a Large Earthquake in Another Country Cause One in Your Backyard? 2011
- University of Texas at El Paso, Louse Stokes Alliance for Minority Participation (LSAMP) Conference, Keynote Address 2010
- 2009 IRIS/SSA Distinguished Lecturer, Can a Large Earthquake in Another Country Cause One in Your Backyard?
- Coos Bay, OR 2009
- Denver Nature and Science Museum 2009
- Southern California Conference on Undergraduate Research, Pomona, Keynote Address 2008
- University of Texas at El Paso, Preparing Future Faculty, Keynote Address 2008
- 1st Summer International Conference on Education, University of Texas at El Paso, Keynote Address 2008
- University of California, Santa Cruz, Graduate Commencement Keynote Address 2007
- Master of Ceremonies, SACNAS Annual Meeting Awards Ceremony 2002, 2005, 2006

Invited Talks

- University of Arizona, Tucson, AZ, Using Collective Impact to Change How We Conduct Geoscience and Broaden Participation 2023
- Geological Society of Washington, D.C., Developing Strong International Partnerships for Geoscience Advances and Capacity Building 2020
- Iranian University, Induced Seismicity: Challenges and Strategies For Mitigation 2020
- American Rock Mechanics Association Induced Seismicity webinar, Addressing Seismicity in Texas: The Technical Approach of the Railroad Commission of Texas 2020
- Nerd Nights, Insights Science Center, It's Our Fault 2018
- American Association for Professional Geophysicists, Southwest Section, El Paso, TX 2018
- West Texas Water Conference, Midland, TX 2018
- Seismological Society of America, Investigating earthquake stress release from triggered seismicity in geothermal and induced seismicity regions 2017
- University of Texas at El Paso, Dept. of Geological Sciences New approaches toward advancing our understanding of earthquakes and tectonic processes 2015
- Bureau of Economic Geology, Jackson School of Geosciences, UT Austin New approaches toward advancing our understanding of earthquakes and tectonic processes 2015

- MiniCAST 2015 (El Paso), Fact or Fiction: The Science Behind the Movie "San Andreas" 2015
- Science Teachers Association of Texas (El Paso), Geology of El Paso: It's Our Fault 2015
- SACNAS, Big Data in the Geosciences, Conference Session 2014
- Purdue University, The Roles of Static and Dynamic Stresses in Connecting Earthquakes: Case Studies of Recent Events, Seminar 2013
- Rotary Club, El Paso, TX, Can El Paso have a Large Earthquake?, Seminar 2012
- American Geophysical Union, Fall Meeting, The Roles of Static and Dynamic Stresses in Connecting Earthquakes: Case Studies of Recent Events (Invited for Session S21D) 2011
- Southern Methodist University, Dynamic Stress Modeling: Insights into the Physics of Earthquakes and Non-Volcanic Tremor, Seminar 2011
- Fort Bliss, El Paso, TX, Larger Earthquakes in El Paso?, Seminar 2011
- Cornell University, Can a Large Earthquake in Another Country Cause One in Your Backyard?, Seminar 2009
- National Earthquake Information Center, Can a Large Earthquake in Another Country Cause One in Your Backyard?, Seminar 2009
- New Mexico Tech, Can a Large Earthquake in Another Country Cause One in Your Backyard?, Seminar 2009
- Penn. State University, Insights into Dynamic Triggering 2007
- University of Central Washington, Insights into Dynamic Triggering 2007
- California State University Dominguez Hills, Insights into Dynamic Triggering 2007
- University of Wisconsin, The Bhutan Himalaya: Insights into Himalayan Formation from Seismic Data; The 2004 Sumatra earthquake 2006
- Georgia Tech, The Bhutan Himalaya: Insights into Himalayan Formation from Seismic Data 2006
- El Paso Community College, 15th Annual International Conference on the quality of life on the U.S.-Mexico border, Shake, Rattle, and Roll 2005
- Geological Society of America, Fall Meeting, The Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Geoscience Initiative 2004
- University of Texas at Austin, The Future of Seismology, Optimizing People and Performance (Diversity); The Bhutan Himalaya: Insights into Himalayan Formation from Seismic Data 2004
- IRIS Annual Workshop, The Future of Seismology, Optimizing People and Performance (Diversity) 2004
- Southern Methodist University, The Bhutan Himalaya: Insights into Himalayan Formation from Seismic Data 2004
- University of Texas at El Paso, Physics Department, The UTEP Geophysics Program 2004
- New Mexico Tech, The Bhutan Himalaya: Insights into Himalayan Formation from Seismic Data 2004

- Texas Education Agency, The EarthScope Initiative 2003
- University of Arizona, The Bhutan Himalaya: Preliminary Results from a Temporary Seismic Network 2003
- Joint Statistical Meetings, Annual Meeting, Nuclear Explosion Monitoring: History, Seismology, and Statistics 2003
- American Geophysical Union, Fall Meeting, The Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Geoscience Initiative 2002
- EARTHSCOPE Education and Outreach, The EarthScope Knowledge Base 2002
- University of Indiana, Bloomington, Unusual Seismic Events in China and Implications for Nuclear Explosion Monitoring 2001
- Purdue University, The 1997 Tibet (M_w=7.5) Earthquake: Rupture Characteristics and the Aftershock without a Shock 2001
- Saint Louis University, The 1997 Tibet (M_w=7.5) Earthquake: Rupture Characteristics and the Aftershock without a Shock 2001

Talks

- Insights Nerd Night, It's Our Fault 2018
- MiniCAST (Science Teacher) Conference, El Paso, Earthquakes in El Paso? It's not my Fault! 2016
- MiniCAST (Science Teacher) Conference, El Paso, Fact or Fiction: The science behind the movie San Andreas 2015
- Incorporated Research Institutions for Seismology, Annual Meeting 2002, 2004
- Seismic Research Symposium, Conference on Monitoring the Comprehensive Test Ban Treaty 1998-2003
- American Geophysical Union,
- Fall Meeting, 1989-1994,1996,1998-present
- Spring Meeting 1998
- Seismological Society of America, Annual Meeting 1999-2000, 2004-2006
- International Union of Geophysics and Geodesy, Vienna, Austria 1991
- Society for the Advancement of Chicanos and Native Americans in Science, Annual Meeting 1991, 1992, 1993, 1997, 2003, 2010-2012

b. Panel Member for Peer Review

- National Science Foundation, EarthScope 2013-2016
- National Science Foundation, GK12 2005
- National Earthquake Hazard Reduction Program, United States Geological Survey 2001
- Institute of Geophysics and Planetary Physics, Lawrence Livermore National Laboratory 2000

c. Professional Peer Reviewer

- Nature
- Journal of Geophysical Research

- Bulletin of the Seismological Society of America
- Tectonics
- Physics of the Earth and Planetary Interiors
- Natural Hazards
- Earth and Planetary Science Letters
- Pure and Applied Geophysics
- American Geophysical Union, Monograph Series
- Institute of Geophysics and Planetary Physics
- Geophysical Research Letters
- National Science Foundation
- National Nuclear Security Agency
- Department of Defense
- Department of Energy
- State Department
- Earth, Planets and Space (EPS)
- Geology
- Geophysics
- Seismology Research Letters

10. FUNDED AND PENDING GRANTS (TOTAL FUNDED: ~$36M; PENDING: $41.5M)

- (36) Environmental Protection Agency Amount: $20,000,000
  Title: Urban Heat Islands (uhis) And Aerosol Effects Amplifying Climate Impacts In Disadvantaged Communities In El Paso Texas: A Community-based Engagement And Mitigation Study; Role: co-PI; Status: Pending; Duration: 5 years; Start Date: 6/2025
- (35) National Science Foundation, Geophysics Amount: $6,500,000 (UTEP Share)
  Title: National Geophysics Facility (Total Award $223M); Role: PI of subaward from Battelle; Status: Pending; Duration: 5 years; Start Date: 6/2025
- (34) National Science Foundation, Geophysics Amount: $15,000,000
  Title: Track 1: Center for Collective Impact in Earthquake Science (C-CIES); Role: PI; Status: Pending; Duration: 5 years; Start Date: 1/2025
- (33) National Science Foundation, Geophysics Amount: $7,244,556
  Title: Implementation grant: Community-driven Inclusive Excellence and Leadership Opportunities in the Geoscience (CIELO-G)
  Role: PI; Status: Funded; Duration: 5 years; Start Date: 9/2022
- (32) National Science Foundation, Geophysics Amount: $500,000
  Title: Track 1: Center for Collective Impact in Earthquake Science (C-CIES): Building Inclusive Excellence, Diversity, Equity, and Community into Earthquake Science
  Role: PI; Status: Funded; Duration: 2 years; Start Date: 9/2022
- (31) Department of Defense, Instrumentation and Research Support Program for Hispanic Serving Institutions Amount: $254,665
  Title: Distributed acoustic sensing for interdisciplinary geophysical and civil engineering research and education
  Role: co-PI; Status: Funded; Duration: 1 year; Start Date: 3/2022

- (30) National Science Foundation, Geophysics Amount: $49,840
  Title: INTERN Supplement for Insights into the complexities of a seismogenic subduction zone: Analysis of a high-quality aftershock data set from the 2017 Tehuantepec (M8.2) offshore Mexico earthquake
  Role: PI; Status: Funded; Duration: 1 year; Start Date: 3/2022
- (29) National Science Foundation, Geophysics Amount: $303,000
  Title: Insights into the complexities of a seismogenic subduction zone: Analysis of a high-quality aftershock data set from the 2017 Tehuantepec (M8.2) offshore Mexico earthquake
  Role: PI; Status: Funded; Duration: 2 years; Start Date: 9/2020
- (28) Shell Oil Company Amount: $15,000/yr ($225,000 total)
  Title: Shell/Pathways High School Summer Camp
  Role: PI; Status: Funded; Duration: 4 mo./yrs; Start Date: 2004-2013, 2017-2024
- (27) National Science Foundation, INTERN Supplement Amount: $30,100
  Title: INTERN Supplement GP_EXTRA: Academic Year Pathways Research Experience Program (AY-PREP)
  Role: PI; Status: Funded; Duration: 1 year; Start Date: 6/2019
- (26) National Science Foundation, REU Supplement Amount: $24,100
  Title: REU Supplement: Collaborative Research: Investigating fault geometries and rupture processes in the Nepalese Himalaya following the April 25, 2015 Gorkha earthquake
  Role: co-PI; Status: Funded; Duration: 1 year; State Date: 5/2019
- (25) International Union of Geodesy and Geophysics Amount: $10,000
  Title: Lithospheric Seismicity and Tectonics in the Himalaya,"
  Role: co-PI; Status: Funded; Duration: 5 years; Start Date: 7/2019
- (24) National Science Foundation, RAPID Amount: $34,713
  Title: RAPID: Seismic Deployment for Capturing Aftershocks of the September 2017 Chiapas (M=8.1) and Puebla (M=7.1) Mexico Earthquakes
  Role: PI; Status: Funded; Duration: 1 year; Start Date: 10/2017
- (23) National Science Foundation, HRD Amount: $299,903
  Title: NSF INCLUDES: Building upon CAHSI's Success to Establish a Networked Community for Broadening Participation of Hispanics in Graduate Studies
  Role: co-PI; Status: Funded; Duration: 2 years; Start Date: 8/2016
- (22) National Science Foundation, Geophysics Amount: $213,221
  Title: Collaborative Research: Investigating fault geometries and rupture processes in the Nepalese Himalaya following the April 25, 2015 Gorkha earthquake
  Role: co-PI; Status: Funded; Duration: 2 years; Start Date: 7/2016
- (21) National Science Foundation, IUSE Amount: $498,000
  Title: GP_EXTRA: Academic Year Pathways Research Experience Program (AY-PREP)
  Role: PI; Status: Funded; Duration: 3 years; Start Date: 3/2015
- (20) National Science Foundation, RAPID Amount: $131,790
  Title: RAPID: Collaborative Research: Nepal Array Measuring

Aftershock Seismicity Trailing Earthquake
Role: co-PI; Status: Funded; Duration: 1 year; Start Date: 6/2015

- (19) National Science Foundation, CREST Amount: $5,000,000
  Title: CREST Phase II: Cyber-ShARE Center of Excellence
  Role: co-PI; Status: Funded; Duration: 5 years; Start Date: 9/2012
- (18) National Science Foundation, Opportunities for Enhancing Diversity In The Geosciences Amount $796,878
  Title: Promoting Initiatives For Diversity In The Geosciences
  Role: Co-PI for SACNAS; Status: Funded; Duration: 5 years; Start Date: 5/2011
- (17) National Science Foundation, Earthscope Amount $252,898
  Title: Collaborative Research: Systematic Analysis of Dynamic Earthquake Triggering Using The USARRAY
  Role: Co-PI; Status: Funded; Duration: 3 years; Start Date: 4/2011
- (16) National Science Foundation, Division of Undergraduate Education Amount: $550,381
  Title: Recruiting and Keeping Undergraduate Students in the Sciences
  Role: co-PI; Status: Funded; Duration: 5 years; Start Date: 4/2010
- (15) National Science Foundation, Graduate STEM Fellows (GK-12) Amount: $2,983,388
  Title: Science for a Sustainable Future: Developing the Next Generation of Diverse Scientists
  Role: PI; Status: Funded; Duration: 5 years; Start Date: 6/2009
- (14) National Science Foundation, Division of Earth Sciences Amount: $279,362
  Title: Surface wave triggering of earthquakes and non-volcanic tremor: Insights into the physics of rupture
  Role: co-PI; Status: Funded; Duration: 2 years; Start Date: 6/2009
- (13) National Institute for Health, Nat. Inst. Gen. Medical Sciences (NIGMS) Amount: $6,183,542
  Title: SACNAS: Initiatives for Equity in Science
  Role: co-PI; Status: Funded; Duration: 5 years; Start Date: 02/2007
- (12) National Science Foundation, CREST Amount: $5,000,000
  Title: CREST: CREST: Cyber-ShARE Center of Excellence
  Role: co-PI; Status: Funded; Duration: 5 years; Start Date: 03/2007
- (11) National Science Foundation, International Polar Year Amount: $1,296,770
  Title: IPY: A SACNAS Initiative for Engaging New Audiences for Polar Research
  Role: PI; Status: Funded; Duration: 3 years; Start Date: 03/2007
- (10) National Science Foundation, International Polar Year Amount: $452,108
  Title: IPY-ROAM: International Polar Year Research and Educational Opportunities in Antarctica for Minorities
  Role: co-PI; Status: Funded; Duration: 3 years; Start Date: 05/2006
- (9) University of Texas, Advanced Research Projects Amount: $69,506
  Title: Development of a methodology for integrated analysis to arrive at a 3-D models of earth structure
  Role: co-PI; Status: Funded; Duration: 1 year; Start Date: 5/2006
- (8) National Science Foundation, Opp. Enhancing Diversity Geosciences Amount: $1,484,851

Title: Track 2: Pathways - A Geoscience Network for Training and Recruitment of Future Earth Scientists in El Paso
Role: co-PI; Status: Funded; Duration: 5 years; Start Date: 10/2004

- (7) National Science Foundation, Opp. Enhancing Diversity Geosciences — Amount: $1,242,876
  Title: Track 2: SACNAS Initiative for Equity in the Geosciences
  Role: co-PI; Status: Funded; Duration: 5 years; Start Date: 10/2004
- (6) Department of Defense, Instrumentation and Research Support Program for Hispanic Serving Institutions — Amount: $200,000
  Title: Seismic Instrumentation for Solidifying Research Capabilities in Defense and Earthquake Science and Education
  Role: PI; Status: Funded; Duration: 1 year; Start Date: 07/2004
- (5) National Nuclear Security Administration — Amount: $79,433
  Title: Source Phenomenology Experiment (SPE) in Arizona,
  Role: co-PI; Status: Funded; Duration: 2 years; Start Date: 05/2003
- (4) National Science Foundation, Office of International Science and Engineering — Amount: $6,900
  Title: US-Bhutan Workshop: Seismotectonics and its Relationship to Natural Hazards in the Bhutanese Himalaya
  Role: co-PI; Status: Funded; Duration: 1 year: Start Date: 2/2003
- (3) University Research Initiative, University of Texas at El Paso — Amount: $2,160
  Title: Evolution and seismic hazard of the southern Rio Grande rift near El Paso, TX.
  Role: PI; Status: Funded; Duration: 9 months; Start Date: 11/2002
- (2) National Earthquake Hazards Reduction Program, U. S. Geological Survey — Amount: $80,098
  Title: Seismic investigation of historical and recent earthquakes of the Mendocino Triple Junction region.
  Role: PI; Status: Funded; Duration: 2 years; Start Date: 05/2002
- (1) Los Alamos National Laboratory — Amount: $158,305
  Title: Analysis of a seismic array in Bhutan.
  Role: co-PI; Status: Funded; Duration: 3 years; Start Date: 11/2001

11. PUBLICATIONS (~120 PUBLICATIONS/REPORTS; 1 TEXTBOOK)

a. Books

Ammon, C. J., A. A. Velasco, T. Lay, and T. Wallace, 2020, Foundations of Modern Global Seismology, Version 2, Elsevier, 700pp.

b. Submitted for Peer Review

Ayala Cortez, S., A. A. Velasco, M. S. Karplus, D. Doser, 2024, Identifying seismic vulnerabilities in the El Paso, Texas region, *to be submitted to BSSA.*

c. Peer Reviewed

78. Agail, A., A. A. Velasco, A. Sosa, D. Doser, and A. Zamora, 2023, Surface Wave Dispersion Tomography in Libya, *International Journal of Science and Research*, 12, DOI: 10.21275/SR23430012822

77. Alfaro-Diaz, R., A. A. Velasco, and D. L. Guenaga, 2022, Insights from Dynamically Triggered and Induced Earthquakes in Oklahoma, *Seismol. Res. Lett.,* 94 (2A), 1–14, doi: 10.1785/ 0220220211.
76. Ayala Cortez, S., A. A. Velasco, M. S. Karplus, O. S. Dena Ornelas, H. Gonzalez-Huizar, X. Pérez-Campos, A. Husker, and M. Pant, 2022, Ground Motion Analysis in Juchitán De Zaragoza, Oaxaca Following The 2017 Tehuantepec, Mexico (M8.2) Earthquake, *Bull. Seis. Soc. Am, 1–19, doi: 10.1785/0120210141*
75. Ayala Cortez, S., L. Bokati, A, Velasco, and V. Kreinovich, 2022, Why Daubechies wavelets are so successful, *Journal of Intelligent and Fuzzy Systems*, 43, pp. 6933-6938.
74. Guenaga, D. L., Alfaro-Diaz, R. A., & Velasco, A. A., 2022, Limited dynamic triggering in the Utah region, USA. *Geophysical Journal International*, *229*(3), 1517–1530. https://doi.org/10.1093/gji/ggac010
73. Guenaga, D. L., C. Chai, M. Maceira, O. E. Marcillo, and A. A. Velasco, 2021, Seismically Identifying Nuclear Reactor Operations Using a Power Spectral Density Misfit Detector, in press, *Bull. Seis. Soc. Am., 111 (3): 1378–1391. https://doi.org/10.1785/0120200267*
72. Guenaga, D. L., A. A. Velasco, O. E. Marcillo, C. Chai, and M. Maceira, 2021. The Silencing of US Campuses following the COVID-19 Response: Evaluating Root Mean Square Seismic Amplitudes Using Power Spectral Density Data, *Seis. Res. Lett., 92 (2A): 941–950. https://doi.org/10.1785/0220200391*
71. Alfaro-Diaz, R., Velasco, A. A., Pankow, K. L., & Kilb, D., 2020. Optimally Oriented Remote Triggering in the Coso Geothermal Region. *Journal of Geophysical Research: Solid Earth*, *125*(8). https://doi.org/10.1029/2019JB019131
70. M. Pant, S. N. Sapkota, J. Nábělek, A. A. Velasco, L. B. Adhikari, A. Ghosh, S. L. Klemperer, V. Kuna, M. M. Mendoza, et al., 2020, A Rapid Response Network to Record Aftershocks of the 2015 M 7.8 Gorkha Earthquake in Nepal, *Seismol. Res. Lett*. 91, 2399–2408, doi: 10.1785/0220190394.
69. Mendoza, M. M., A. Ghosh, M. S. Karplus, S. L. Klemperer, S. N. Sapkota, L. B. Adhikari, A. Velasco, 2019, Duplex in the Main Himalayan Thrust illuminated by aftershocks of the 2015 M_w 7.8 Gorkha earthquake, *Nature Geosciences*, 12, 1018–1022.
68. Bokati, L., Alfaro, R., Velasco, A. A., Kreinovich, V. Y., 2019, Dynamic Triggering of Earthquakes: Symmetry-Based Geometric Analysis. *Geombinatorics, 29*(2), 78-88.
67. Nguyen, T. N., L. Bokati, A. Velasco, and V. Kreinovich, 2019, Bhutan Landscape Anomaly: Possible Effect on Himalayan Economy (In View of Optimal Description of Elevation Profiles), *Thai Journal of Mathematics*, Special issue, Structural Change Modeling and Optimization in Econometrics, pp. 57-69.
66. Ayala Cortez, S., Velasco, A. A., Kreinovich, V. Y., 2018, Soft Computing Ideas Can Help Earthquake Geophysics. *Mathematical Structures and Modeling, 47*, 91-100.
65. Ayala Cortez, S., Velasco, A. A., Kreinovich, V. Y., 2018, Need for a Large-N Array (and Wavelets and Differences) to Determine the Assumption-free 3-D Earth Model. *Journal of Uncertain Systems, 12*(3), 171-175.
64. Thompson, L., A. A. Velasco, A. Zamora, and M. Hussein, 2017, Geophysical constraints on the crustal structure of the Southern Rio Grande Rift, *Bull. Seis. Soc. Am.,* 107, DOI: 10.1785/0120150187.
62. Thompson, L., A. A. Velasco, and V. Kreinovich, 2016, A constrained multi-objective optimization framework for joint inversions, submitted to *AIMS Geoscience*. AIMS Geosciences, 2016, 2(1): 63-87. doi: 10.3934/geosci.2016.1.63.

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e. Abstracts (186 Professional Presentations)

186. Salas, K., A. A. Velasco, and A. Zamora, An Analysis of UTEP's Pathways to Geosciences High School Summer Camp 2017-2024, to be presented at 2024 Fall Meeting, AGU, Washington, DC, 9-13 Dec
185. Hardy, S., A. A. Velasco, B. Brunner, H. A. Gutiérrez-Jurado, M. S. Karplus and L. Ma, CIELO-G: Building Inclusive Geoscience Communities Through Collaborative Research and Community Engagement, to be presented at 2024 Fall Meeting, AGU, Washington, DC, 9-13 Dec
184. Dominguez, A., R. Alfaro-Diaz, A. A. Velasco, and S. Ayala Cortez, Surface Wave Dispersion Characteristics in Seismic Monitoring: Innovative Approach Using Ambient Noise Horizontal-to-Vertical Spectral Ratio Inversion, to be presented at 2024 Fall Meeting, AGU, Washington, DC, 9-13 Dec
183. Velasco, A. A. J. Weidner, M. S. Karplus, S. L. Bilek, Y. C. Lin, C. Bolton Valencius, M. Brudzinski, D. Chandrsekhar, J. Ebel, T. E Hobbs, J. Miguel Hurtado Jr., S. C. Jaume, E. Jones, A. L. Kafka, S. Loos, A.-M. Nunez, K. L. Pankow, Z. Peng, I. Tien, E. A. Vanacore, and M. Alvillar, Using collective impact to change how we conduct geoscience and broaden participation: The Center for Collective Impact in Earthquake Science (C-CIES), Abstract S32B-02, to be presented at 2024 Fall Meeting, AGU, Washington, DC, 9-13 Dec
182. Aránguiz Rago, T., N. Hucke, G. Morán, A. Pérez, A. A. Velasco, L. Medina Luna, S. J. Tumber-Dávila, A. R. Marín, C. Garza, Lowering Barriers: Empowering Latin American Geoscientists in the Global Community, Town Hall TH15J, to be presented at 2024 Fall Meeting, AGU, Washington, DC, 9-13 Dec
181. Garcia, M., A. A. Velasco, A. L. Husker, C. Chai, and M. S. Karplus, Insights into the Complexities of a Seismogenic Subduction Zone: ML-Driven Analysis of the M8.2 2017 Tehuantepec Earthquake Aftershock Sequence, Abstract T21B-04, to be presented at 2024 Fall Meeting, AGU, Washington, DC, 9-13 Dec
180. Husker, A. L., E. Biondi, A. Zhang, A. A. Velasco, and M. Garcia, Why did the Tehuantepec Earthquake occur in the Tehuantepec Gap, but 40 km away from the megathrust interface?, Abstract T21B-06, to be presented at 2024 Fall Meeting, AGU, Washington, DC, 9-13 Dec
179. Garza, C., C. A. Suarez, M. Suarez, L. Medina Luna, M. Diaz, and A. A. Velasco, Engaging Hispanic Perspectives and Knowledge in 21st Century Climate Science, Abstract U31A, to be presented at 2024 Fall Meeting, AGU, Washington, DC, 9-13 Dec
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175. Alvarez, Y., Y. C. Lin, E. A. Vanacore, K. Pankow, S. Pachhai, and A. A. Velasco, 2023, Understanding Consequences that Matter to Stakeholders Resulting from Potential Seismic Events in Puerto Rico, Abstract NH41E-0783, 2023 Fall Meeting, AGU, San Francisco, CA, 11-15 Dec.
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173. Dominguez, A., R. Alfaro-Diaz, J. A. Kintner, J. D. Carmichael, and A. A. Velasco, 2023, Surface Wave Dispersion Characteristics in Nuclear Explosion Monitoring: An Innovative Approach Using Ambient Noise, Abstract S23E-0420, 2023 Fall Meeting, AGU, San Francisco, CA, 11-15 Dec.
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171. Ayala Cortez, S., A. A. Velasco, and S. Harder, 2022, A Numerical Experiment in Small-Angle Scattering: From X-Ray to Seismology, Abstract S12F-0203, presented at 2022 Fall Meeting, AGU, Chicago, IL, 12-16 Dec.
170. Velasco, A. A., M. S. Karplus, J. Weidner, S. L. Bilek, D. Chandrsekhar, J. Ebel, T. E. Hobbs, J. M. Hurtado Jr, S. C. Jaume, E. Jones, A. L. Kafka, A.-M. Nunez, K. L. Pankow, Z. Peng, A. Savvaidis, E. A. Vanacore, C. Bolton Valencius and M. Brudzinski, Center for Collective Impact in Earthquake Science (C-CIES): Building Inclusive Excellence, Diversity, Equity, and Community into Earthquake Science, Abstract NH35C-0512, presented at 2022 Fall Meeting, AGU, Chicago, IL, 12-16 Dec.
169. (Invited) Velasco, A. A., 2019, Addressing Higher Education Deserts: Overcoming A Systematic Diversity Drought in the Geosciences, Abstract U23B-02, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
168. (Invited) Velasco, A. A., 2019, Geology Knows No Borders: Developing Strong International Partnerships for Science Advances and Capacity Building, Abstract PA24-04, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
167. Hardy, S., A. Zamora, and A. A. Velasco, 2019, UTEP's 2019 Pathways to Geoscience Summer Camp for High School Students, Abstract ED23F-1085, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
166. Zamora, A., A. Sosa, A. A. Velasco, M. Maceira, and C. Chai, 2019, A Primal-Dual Approach for Joint Inversion of Seismic and Gravity Data: Gaining Insight Into the 3D

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165. Velasco, A. A., S. Ayala Cortez, H. Gonzalez-Huizar, and A. L. Husker, 2019, Ground Motion Differences and Damage in Juchitan de Zaragoza, Oaxaca from the 2017 Tehuantepec, Mexico (M8.2) Earthquake from a Temporary Seismic Network, Abstract S33E-0627, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
164. Ayala Cortez, S., A. A. Velasco, and S. Harder, 2019, Using Small Angle Seismic Scattering to Image the Subsurface, Proof of Concept, Abstract S41F-0602, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
163. Guenaga, D., L., C. Chai, M. Maceira, O. E. Marcillo, and A. A. Velasco, 2019, Detecting and Identifying Nuclear Reactor Operational Events using Seismo-acoustic Signals, Abstract S53C-0518, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
162. Pant, M., M. S. Karplus, A. A. Velasco, J. Nabelek, V. M. Kuna, A. Ghosh, S. N. Sapkota, L. B. Adhikari, and S. L. Klemperer, 2019, Investigating lithospheric structure across the Nepalese Himalayas using local earthquakes, Abstract T41E-0320, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
161. Garcia, A. V., D. J. Simpson, M. S. Karplus, A. A. Velasco, M. Pant, J. Nabelek, S. N. Sapkota, L. B. Adhikari, V. Schulte-Pelkum, S. L. Klemperer, and A. Ghosh, 2019, Crustal structure of the Nepalese Himalaya revealed by receiver functions and Rayleigh wave dispersion, Abstract T41E-0324, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
160. Caylor, J. R., M. S. Karplus, J. P. Esparza Limon, J. Farrell, J. Chaput, S. A Veitch, G. Kaip, F.-C. Lin, A. A. Velasco, and R. B. Smith, 2019, Shallow Active-Source Seismic Imaging of Old Faithful Geyser in the Upper Geyser Basin of Yellowstone National Park, Abstract V33D-0194, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
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158. Karplus, M. S., and A. A. Velasco, 2019, Two International Aftershock Deployments in Nepal and Mexico, IRIS Webinar, October 2, 2019.
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156. Gonzalez-Huizar, H., A. Husker, and A. A. Velasco, 2019, Was the 2018 M=7.2 Pinotepa Nacional earthquake triggered by the 2017 M=8.2 Tehuantepec earthquake?, Presented at Reunión Anual de la Unión Geofísica Mexicana (*RAUGM*), Puerto Vallarta, 2019.
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151. Sumy, D. F., H. B. Davis, T. L. Carrick, W. Bohon, A. A. Velasco, M. Hubenthal, J. S. Taber, L. Marasco, and P. M. Asher, IRIS Field Experiences for Undergraduates Program (FieldXP): Lessons Learned from a Three-Year Pilot Study, 2019, Abstract ED12A-09, presented at 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.
150. Zamora, A., A. Sosa, and A. A. Velasco, 2018, Joint inversion of Surface Wave Dispersion and Bouguer Gravity Anomalies Using Synthetic Data, Abstract P51E-2922, presented at 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.
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